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JP8010573A: EXHAUST GAS PURIFYING DEVICE

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Country: **JP** Japan

Inventor(s): **TSUJI SHINJI**

Applicant(s): **TOYOTA MOTOR CORP**



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Issued/Filed Dates: **Jan. 16, 1996 / July 4, 1994**

Application Number: **JP1994000152357**

IPC Class: **B01D 053/94; B01D 053/14; B01D 053/86; B01J 023/10; B01J 023/46; B01J 023/46; B01J 023/96;**

Abstract: **Purpose:** To improve NOx purifying efficiency by decomposing the absorbed SOx at a low temp. to promote the absorption of NOx.
Constitution: This device consists of a first catalyst arranged on the upstream side of an exhaust gas current and formed by depositing a noble metal catalyst on an NOx absorbing carrier consisting of amorphous M1.Ai2O3 (M1 is at least one kind of metal selected from transition metals) and a second catalyst arranged on the downstream side of the first catalyst and consisting of amorphous M2.Ai2O2 (M2 is at least one kind of metal selected from alkali metals, alkaline- earth metals and rare earth elements) and absorbing NOx. Since a transition metal sulfate is decomposed at a low temp., the first catalyst absorbs NOx efficiently, further the second catalyst absorbs NOx, and NOx is efficiently removed. Further, the first and second catalysts consisting of an amorphous multiple oxide have high heat resistance.
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Foreign References: **none**

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